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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON HKTS 7 [HKTS 7/230]. You'll find the answers to all your questions on the HARMAN KARDON HKTS 7 [HKTS 7/230] in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HARMAN KARDON HKTS 7 [HKTS 7/230]
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HKTS 7 Home Theater Speaker System

OWNER'S MANUAL



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Power for the Digital Revolution™



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Manual abstract:

Example (bold type) indicates a specific control or rear-panel connection on the SUB-TS7 subwoofer EXAMPLE (OCR type) indicates a control or switch position on the SUB-TS7 subwoofer 0 (number in a circle) indicates a rear-panel control or connection on the SUB-TS7 subwoofer 2 TABLE OF CONTENTS Introduction Introduction Thank you for purchasing the Harman Kardon HKTS 7, with which you're about to begin many years of listening enjoyment. The HKTS 7 has been custom-designed to provide all the excitement and power of the cinema experience in your own living room. While sophisticated electronics and state-of-the-art speaker components are hard at work within the HKTS 7, hookup and operation are simple. Color-keyed cables and connections, and simple controls make the HKTS 7 easy to use. To obtain maximum enjoyment from your new home theater speaker system, we urge you to take a few minutes to read through this manual. This will ensure that connections to your receiver or preamp/processor and amplifier or other external devices are made properly. In addition, a few minutes spent learning the functions of the various controls will enable you to take advantage of all the power and refinement the HKTS 7 is able to deliver. If you have any questions about this product, its installation or operation, please contact your dealer, the best local source of information. The HKTS 7 subwoofer is easy to connect to your system, since it's equipped with a special subwoofer input for use with equipment that has a dedicated subwoofer connection that carries a low-frequency output. @@@@Harman Kardon invented the high-fidelity receiver fifty years ago. @@I Complete home theater speaker system I Speakers are magnetically shielded for placement near video monitors I Fully color-coded cables and connections simplify setup I Both line- and speaker-level inputs for use with most audio components I Subwoofer input offers superior-quality bass reproduction when used with any digital audio system that incorporates bass management or programmable crossovers Included One center channel speaker One powered subwoofer Four satellites for left, right and surrounds, with color-key stickers (shown with included shelf stands attached) Description and Features The HKTS 7 is a six-piece home theater speaker system that includes a 10-inch, 100-watt, bassreflex powered subwoofer; four identical, 2-way satellite speakers for use in the left and right front and rear speaker positions; a voicematched, dedicated, dual-driver center speaker; shelf stands and wall-mount brackets for the four satellites; and all of the speaker cables you need to connect your speakers to your receiver or preamp/processor and amplifier. The speaker cables and speakers all use a color-coding system to conform to the CEA standard. The colorcoding system minimizes confusion, especially when the HKTS 7 system is used with a Harman Kardon receiver. Four wallmount brackets One RCA cable for connection to subwoofer (purple) Three 6-meter speaker cables for connection to front satellites (red and white) and to center speaker (green) Two 12-meter speaker cables for connection from receiver to rear satellites (gray and blue) INTRODUCTION 3 Rear Panel Connections SUBWOOFER LEVEL SUB-TS7 For use with HKTS 7 System ; FILTER TM ON OFF MIN MAX £ ¢ CAUTION ON AUTO RISK OF ELECTRIC SHOCK DO NOT OPEN PHASE REVERSE NORMAL SUB R L § LINE LEVEL IN H I G H L "WARNING: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE T 2.5A L/250 VOLT FUSE" "AVERTISSEMENT: UTILISEZ UN FUSIBLE DE RECHANGE DE MEME TYPE T 2. 5A L/250V" ¶ L E V E L POWER R AC 230V~50Hz ·ª, OUT IN IMPORTANT: CONNECT STRIPED WIRE TO RED () SPEAKER TERMINAL. 0 Subwoofer-Level Control 1 High-Cut (Low-Pass) Filter Switch 2 Music-Sense On/Off Switch 3 Phase Switch 4 Line-Level Subwoofer (SUB) Input 5 Line-Level Full-Range Inputs 6 Speaker-Level Outputs 7 Speaker-Level Inputs 8 Master Power Switch 9 AC Power Cord 0 Subwoofer-Level Control: Volume may be adjusted using the Subwoofer-Level Control. Turn the control clockwise to increase the SUB-TS7's volume, or counterclockwise to decrease it. 1 High-Cut (Low-Pass) Filter Switch: Placing this switch in the ON position activates circuitry that cuts out all audio input signals above 120Hz. This allows the SUB-TS7 to focus its power on reproducing the low-frequency portion of the signal, avoiding inefficiency and distortion. Engage this filter when using the SpeakerLevel Inputs 7, or when using the LineLevel Full-Range Inputs 5, unless your receiver or processor processes its line-level output using a low-pass filter. The filter has no effect when the Sub Input 4 is used. 2 Music-Sense On/Off Switch: When placed in the AUTO position, and when the Master Power Switch 8 is turned on, the SUB-TS7 will automatically turn itself on or place itself in the Standby mode, depending on whether it is receiving an audio signal. When this switch is placed in the ON position, the SUB-TS7 will remain on, whether or not it is receiving an audio signal. An LED located on top of the SUB-TS7 indicates whether the SUB-TS7 is in the On or standby state when used with the Music-Sense On/Off Switch 2 in the AUTO position. The LED is lit blue to indicate that the SUB-TS7 is receiving an audio signal and is turned on, and the LED is lit amber to indicate that no signal is being received and the SUB-TS7 is in Standby mode. When the Music-Sense On/Off Switch 2 is in the ON position, the LED will be lit blue, whether or not an audio signal is present. When the Master Power Switch 8 is turned off, the LED goes dark, no matter which position the Music-Sense On/Off Switch 2 is in. 3 Phase Switch: This switch determines whether the SUB-TS7 subwoofer's piston-like action moves in and out in phase with the main speakers. If the speakers were to play out of phase, the sound waves produced by the subwoofer would be cancelled out, reducing bass response. This phenomenon depends in part on the relative placement of the speakers in the room. In most cases, the Phase Switch 3 should be left in the NORMAL position. However, it does no harm to experiment with the Phase Switch 3, and you may leave it in the position that maximizes bass response. 4 REAR PANEL CONNECTIONS Rear Panel Connections 4 Line-Level Subwoofer (SUB) Input: Connect the subwoofer output of a receiver with digital surround sound decoding, such as Dolby Digital or DTS®, to this input. This input bypasses the SUB-TS7's internal crossover circuitry, and should only be used with a filtered signal. If your receiver does not have digital decoding, you should use the Line-Level Full-Range Inputs 5 instead. 5 Line-Level Full-Range Inputs: Connect the line-level subwoofer output or preamp output(s) of your receiver or amplifier to these inputs.*



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If your receiver does not have a separate subwoofer output, use a Y-adapter (not supplied) to bridge the receiver's preamp output to the main amp input for that channel, and connect the long end of the adapter to the corresponding line-level input on the SUB-TS7. If your receiver has only a single subwoofer output, you may connect it to either the left or right linelevel input on the SUB-TS7, and no Y-adapter is needed. 6 Speaker-Level Outputs: If you are using the Speaker-Level Inputs 7 on the SUB-TS7, you should connect these binding-post terminals to your front left and right speakers, remembering to maintain polarity by connecting the (+) terminal on the SUB-TS7 subwoofer to the (+) terminal on the speaker, and the (-) terminal on the SUB-TS7 subwoofer to the (-) terminal on the speaker.

If you are not using the SpeakerLevel Inputs 7, then connect your front left and right speakers directly to your receiver or amplifier. See pages 9 through 12 for further information on speaker connections. 7 Speaker-Level Inputs: Connect these binding-post terminals to the main left and right speaker terminals of your receiver or amplifier, if your receiver or amplifier does not have a linelevel subwoofer output. Remember to maintain polarity by connecting the (+) terminal on the receiver/amplifier to the (+) terminal on the SUB-TS7 subwoofer, and the (-) terminal on the receiver/amplifier to the (-) terminal on the SUB-TS7 subwoofer. 8 Master Power Switch: Place this switch in the "On" position to power-on the SUB-TS7 subwoofer.

The SUB-TS7 will then be either in the Standby mode or completely on, depending on the position of the Music-Sense On/Off Switch 2. 9 AC Power Cord: Make sure to plug this cord into an active, unswitched electrical outlet for proper operation of the SUB-TS7. The cord should not be plugged into the accessory outlets found on some audio components. REAR PANEL CONNECTIONS 5 Speaker Placement Color-Coding System The HKTS 7 uses the channel color-coding system established by the Consumer Electronics Association to make setting up your home theater speaker system as easy as possible. Your system includes a set of colored stickers that may be placed near the speaker terminals of each of the four satellite speakers according to the key below. It doesn't matter which satellite speaker is used for any of the front or rear positions. @@@@The surround speakers should not call attention to themselves. Experiment with their placement until you hear a diffuse, ambient sound accompanying the mainprogram material heard in the front speakers. The low-frequency material reproduced by the subwoofer is mostly omnidirectional, and this speaker may be placed in a convenient location in the room.ease the tab. Gently tug on the wire to make sure that it is fully inserted. @@@@In that case, you will need to supply a second interconnect cable. @@@@Make sure that you have configured your surround sound processor for "Subwoofer On." The front left, front right, center and surround speakers should all be set to "Small." When all connections have been made, plug the AC power cord on the subwoofer into an AC outlet.

Front Left + Center + Front Right + SUB-TS7 Subwoofer Line-Level R L Front Left SUB/LFE Out Surround Left Center Front Right Surround Right Surround Left + Receiver Surround Right + 10 SPEAKER CONNECTIONS Speaker Connections Dolby* Pro Logic* (Non-Digital) Speaker Level Use this installation method for Dolby Pro Logic applications (not Dolby Digital, DTS® or other digital processing), where the receiver/processor does not have a subwoofer output, or a volumecontrolled preamp (line-) level output: Connect your receiver or amplifier's front left and right speaker terminals to the left and right terminals on the subwoofer that are marked "High Level In." Connect the left and right terminals on the subwoofer that are marked "High Level Out" to the corresponding terminals on the back of your front left and right speakers. Connect your receiver or amplifier's center, left and right surround-speaker terminals to the corresponding terminals on the back of your center, left and right surround speakers. Front Left Center ++ Front Right + SUB-TS7 Subwoofer H I G H L E V E L L R Receiver Front Left Center Front Right Surround Left Surround Right Surround Left Surround Right + + SPEAKER CONNECTIONS 11 Operation Move the Master Power switch (marked "Power" 8) to the "On" (On) position to use the subwoofer. The SUB-TS7 subwoofer will automatically turn itself on or go into standby mode depending on whether or not a signal is being sent to it by your receiver or surround processor, and provided that the Music Sense On/Off Switch 2 is moved down so that it is in the "AUTO" position. When your receiver or amplifier is off, or is not sending program material to the subwoofer, the subwoofer will be in standby mode and the LED Indicator on the top of the subwoofer will turn amber. When the subwoofer senses an audio signal, it will automatically turn itself on and the LED Indicator will turn blue. If the subwoofer does not sense a signal after approximately twenty minutes, it will automatically go into standby mode. When the Music Sense switch 2 is switched to the "On" position, the subwoofer will remain on, whether or not program material is playing and the LED Indicator will remain lit blue. If you will be away from home for an extended period of time, or if the subwoofer will not be used, switch the Master Power switch 8 to the OFF position.

Volume Volume can be adjusted using the Subwoofer Level Control 0 (above), as shown below. Turn the control knob clockwise to increase the volume of the subwoofer, and counterclockwise to decrease the subwoofer's volume. Subwoofer Level Additional Bass Adjustments In addition to the volume adjustments described above, the SUB-TS7 subwoofer includes a Phase Switch 3 and a Filter Switch 1 that can be used to adjust the bass response to suit your listening environment or taste. In most situations, the Phase Switch 3 should be left in the NORMAL position. If you suspect that the subwoofer is playing out of phase with the other speakers, which would tend to diminish bass response, try placing this switch in the REVERSE position.

There is no harm in experimenting, and you may return the switch to the NORMAL position at any time. If you rearrange your room and reposition the speakers, it would be a good idea to check whether they are in phase by flipping this switch. The High-Cut (Low-Pass) Filter Switch 1 limits the frequencies of the audio signal inputted to the subwoofer to the low frequencies that the subwoofer reproduces best. This allows the subwoofer to perform more efficiently, and with superior bass reproduction, minimizing distortion that might occur if the subwoofer attempted to reproduce higher frequencies.



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This switch should be left in the ON position, except: 1.

When the Sub Input 4 is being used, in which case it has no effect, or 2. When the Speaker-Level Inputs 7 or the Line-Level Full-Range Inputs 5 are being used with a crossover or filter aboard the receiver or processor. In these two circumstances, place the switch in the OFF position. MIN MAX Subwoofer Level MIN MAX 12 OPERATION Troubleshooting If there is no sound from any of the speakers: · Check that receiver/amplifier is on and a source is playing. · Check that the powered subwoofer is plugged in, its Power switch 8 is switched on to the "ON:" position. @@Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. · Review proper operation of your receiver/amplifier. · Check the "Balance" control on your receiver/amplifier. @@Make sure all wires are connected.

Make sure none of the speaker wires are frayed, cut or punctured. · In Dolby Digital or DTS® modes, make sure that the receiver/processor is configured so that the speaker in question is enabled. · Check all wires and connections between receiver/amplifier and speaker. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. · If your receiver/processor is set in Dolby Pro Logic mode, make sure the center speaker is not in phantom mode. · If your receiver/processor is set in Dolby Digital or DTS® mode, make sure the receiver/processor is configured so that the center speaker is enabled. @@Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. · If more than one pair of main speakers is being used, check the minimum impedance requirements of your receiver/amplifier.

· Make sure the connections to the left and right "Speaker Inputs" have the correct polarity (+ and -). · Make sure the subwoofer is plugged into an active electrical outlet. · Make sure the powered subwoofer is plugged in and switched on. @@@@Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.

@@@If it is not, check to see if your receiver/ amplifier has other surround modes you may use. · In Dolby Digital or DTS® modes, make sure your receiver/processor is configured so that the surround speakers are enabled. · Review the operation of your DVD player and the jacket of your DVD to make sure that the DVD features the desired Dolby Digital or DTS® mode, and that you have properly selected that mode using both the DVD player's menu and the DVD disc's menu. If there is no sound coming from one speaker: If there is no sound from the center speaker: If the system plays at low volumes but shuts off as volume is increased: If there is low (or no) bass output: If there is no sound from the surround speakers: TROUBLESHOOTING 13 Specifications HKTS 7 System Frequency Response 35Hz 20kHz (6dB) CEN-TS7 Center Recommended Power 10 80 Watts Impedance 8 Ohms nominal Sensitivity 86dB @ 1 Watt/1 meter Tweeter One 3/4" dome, video-shielded Midrange Dual 3" drivers, video-shielded Dimensions (H x W x D) 102mm x 241mm x 92mm Weight 1kg SUB-TS7 Subwoofer Amplifier 100 Watts RMS Bass 10" Woofer, bass-reflex enclosure Dimensions (H x W x D) 479mm x 340mm x 340mm Weight 15kg SAT-TS7 Satellites Recommended Power 10 80 Watts Impedance 8 Ohms nominal Sensitivity 86dB @ 1 Watt/1 meter Tweeter One 1/2" dome, video-shielded Midrange One 3" driver, video-shielded Dimensions (H x W x D) 167mm x 100mm x 92mm Weight 0.6kg All features and specifications are subject to change without notice.

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